File #	Original File Name
1	EPA_SS_ST_LOUIS_AETH_5MIN_20010701_20010930_V1.csv

Data Exchange Standard Version	Principal Investigator Name--last first	Principal Investigator Affiliation	File Contents Description--short long	Samplng Interval As Reported in Main Table
NARSTO 2005/04/29 (2.302)	Turner ; Dr. Jay	Washington University, Campus Box 1198, One Brookings Drive, St. Louis, MO 63130	PM-2.5_BC_&_UV-C ; PM-2.5 Semicontinuous BC & UV-C by Magee Scientific Aethalometer	5 minute

Samplng Frequency Of Data in Main Table	Quality Control Level	Organization Acronym	Organization Name	Data Usage Acknowledgement	Study Or Network Acronym
Same as sampling interval	2	EPA_PM_SS	EPA Particulate Matter Supersites Program	St. Louis - Midwest Supersite, Harvard School of Public Health, and Washington University	EPA_SS_ST_LOUIS

Study Or Network Name	Country Code	State Or Province Code	Principal Investigator Contact Information	Co-investigator Name--last first	Co-investigator Affiliation
EPA_Supersites--St. Louis	US	IL	Dr. Jay Turner, Washington University, Campus Box 1198, One Brookings Drive, St. Louis, MO 63130	Koutrakis ; Dr. Petros	Harvard School of Public Health, Landmark Center West, Room 417, 401 Park Drive, Boston, MA 02215

Name And Affiliation Of Person Who Generated This File	Date Of Last Modification To Data In Main Table	Name And Version Of Software Used To Create This File
Dr. Jay Turner, Washington University	2003/05/25	MS Excel 2003

Companion File Name format And Version	Date This File Generated archive Version Number	Table Explanation Of Zero Or Negative Values	Table Explanation Of Reported Detection Limit Values
None ; None	2006/05/10 ; 1	Zero or negative values are physically possible for some parameters because the measurement basis is a light transmittance measurement at two discrete times with the change in transmittance determined by difference.	Detection limits to be addressed in the project final QA report.

Table Explanation Of Reported Uncertainty	Table User Note	Table User Note2	Table User Note3	Table User Note4
Uncertainties to be addressed in the project final QA report.	5-minute black carbon (BC) and uv-absorbing carbon (UV-C) by the Magee Scientifc Aethalometer. Model AE-21, S/N 274, PM-2.5 cutoff by impaction, flow rate = 4.0 LPM, specific attenuation cross-sections: 16.6 m2/g for BC (880nm); 39.5 m2/g for UV-C (370 nm).			

Table Name	Table Focus
PM-2.5_Semicontinuous_BC_&_UVC	Surface--fixed

Site Information

Site ID	Name	State Province code	Latitude: decimal degree	Longitude: decimal degree	Sampling height above ground (m)	Ground elevation above sea level (m)	Site land use
ES2SUSILESL_	13th and Tudor, East St. Louis	IL	38.61220	-90.16030	5.0	135.0	Residential

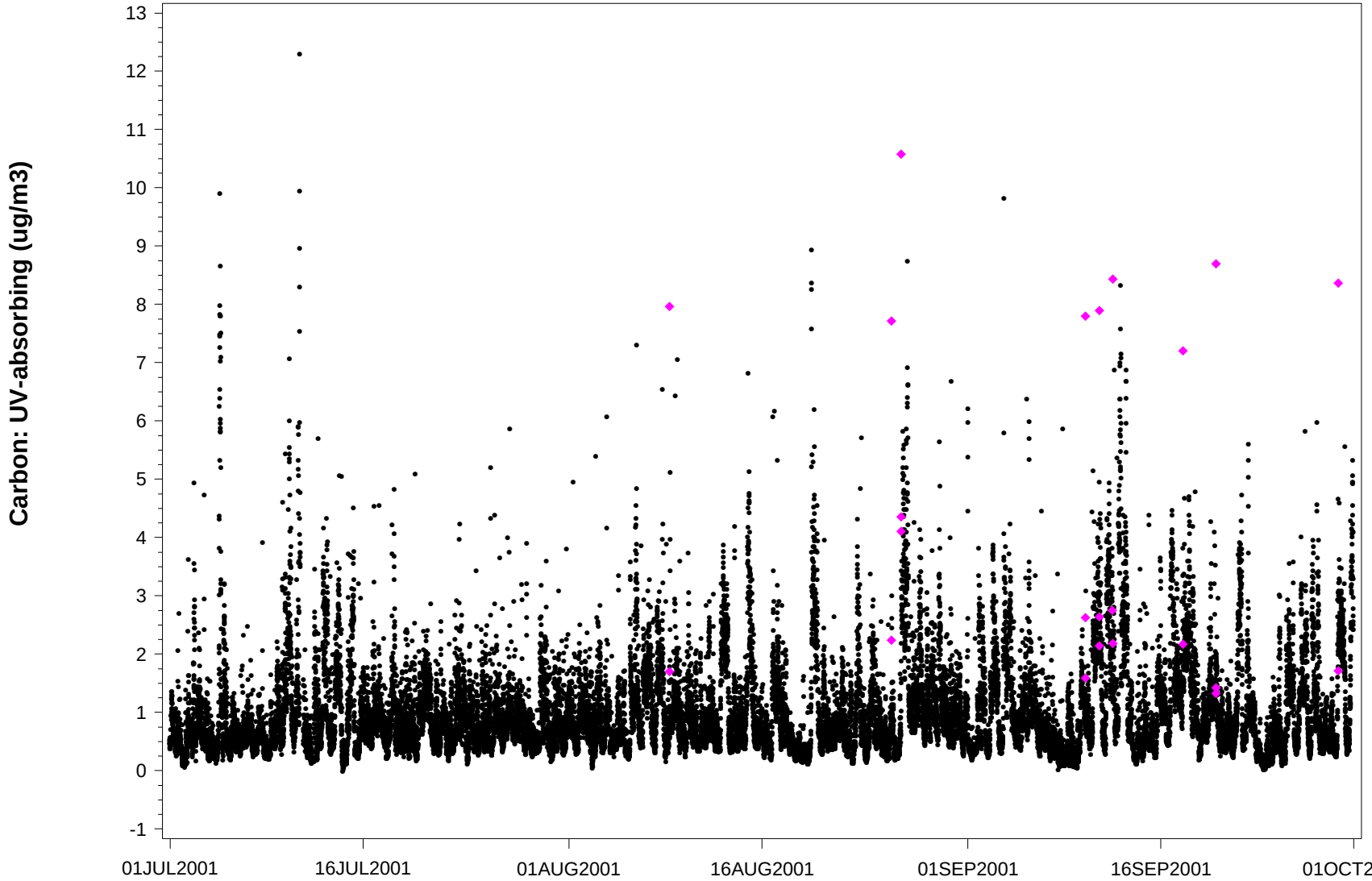
Site ID	Site location setting	Measurement start date	Measurement end date	Co-incident measurements	Study site ID	Lat lon accuracy
ES2SUSILESL_	Suburban	2001/04/11	9999/12/31	Numerous (not specified here)	ESL	-999.9

Flag: NARSTO	Description
H1	Historical data that have not been assessed or validated
M1	Missing value because no value is available
M2	Missing value because invalidated by data originator
V0	Valid value
V1	Valid value but comprised wholly or partially of below detection limit data
V2	Valid estimated value
V3	Valid interpolated value
V4	Valid value despite failing to meet some QC or statistical criteria
V5	Valid value but qualified because of possible contamination (e.g., pollution source, laboratory contamination source)
V6	Valid value but qualified due to non-standard sampling conditions (e.g., instrument malfunction, sample handling)
V7	Valid value but set equal to the detection limit (DL) because the measured value was below the DL

NARSTO Time Series Plot 14APR2009

Site ID: **ES2SUSILESL_** Variable name: **Carbon: UV-absorbing** Units: **ug/m3** Sampling interval: **5 minute** Sampling frequency: **Same as sampling interval**
Observation type: **Particles** Particle diameter--lower bound (UM): **0** Particle diameter--upper bound (UM): **2.5**
Field sampling or measurement principle: **Optical attenuation--aethalometer** Medium: **Quartz** Inlet type: **Impactor--direct**
Volume standardization: **20 deg. C; 1 atmosphere** Sampling Height above ground (m): **5** Wavelength (NM): **370** Wavelength--lower bound (NM): **370**
Wavelength--upper bound (NM): **370** Instrument name and model number: **Magee Scientific Aethalometer AE-21**
Measurement principal investigator: **Koutrakis, Dr. Petros** Detection Limit: **Not available**

Site Name:**13th and Tudor, East St. Louis, Illinois** Latitude:**38.6122 deg.** Longitude:**-90.1603 deg.** Start Date:**2001-04-11**



Statistics
Number of obs: **26,495**
Number of missing: **1,114**
Minimum: **-0.021**
25th Percentile: **0.474**
Median: **0.756**
Mean: **1.025**
75th Percentile: **1.271**
Maximum: **12.29**
Stnd Dev.: **0.874**

NARSTO Flags

Flag Symbol Count

M1:		**1,114**
V0:	●	**25,358**
V4:	◆	**23**

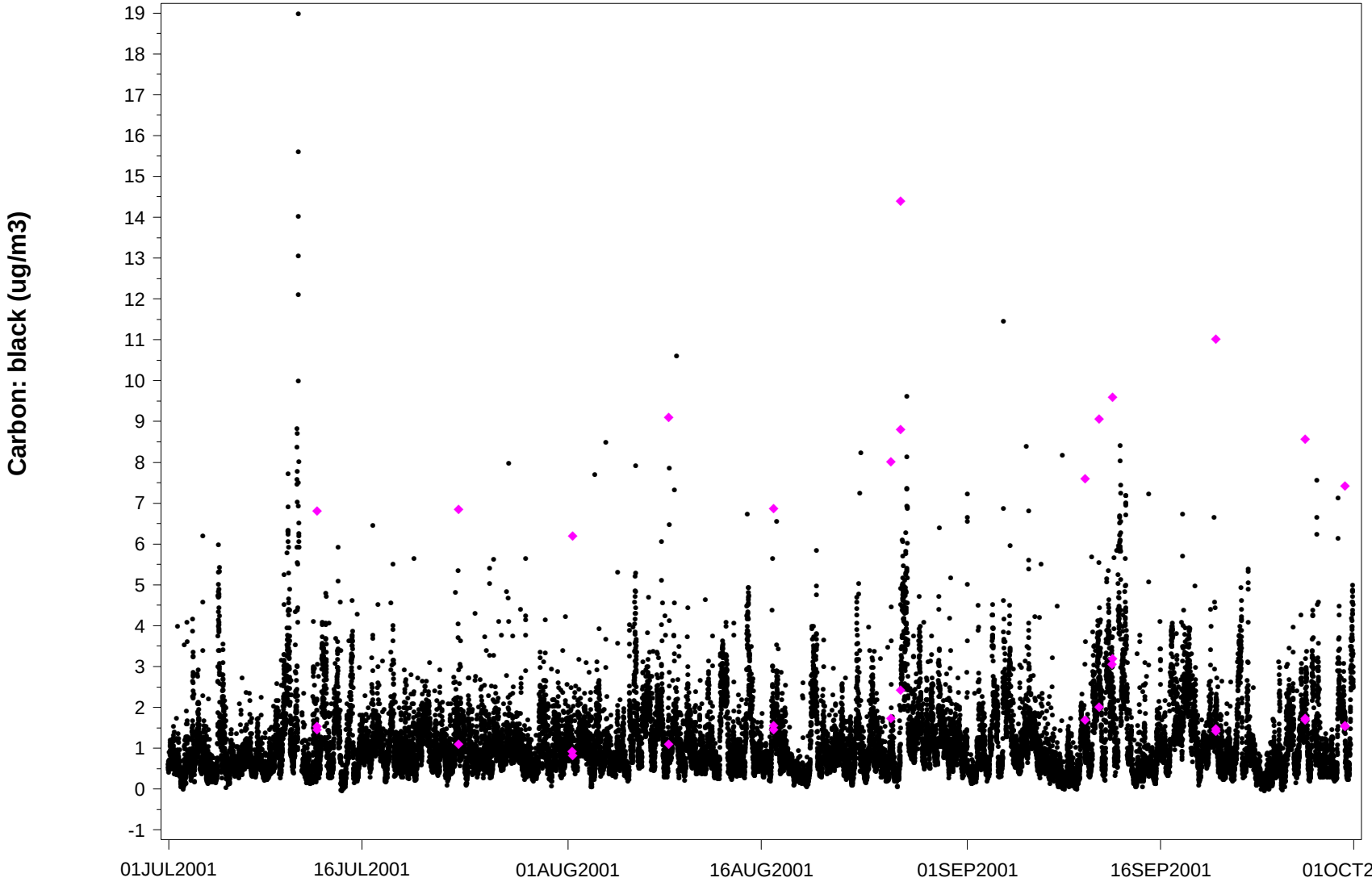
Time Zone: CST

File Name: NARSTO_EPA_SS_ST_LOUIS_AETH_5MIN_2001C20010930.lv1

NARSTO Time Series Plot 14APR2009

Site ID: **ES2SUSILESL_** Variable name: **Carbon: black** Units: **ug/m3** Sampling interval: **5 minute** Sampling frequency: **Same as sampling interval**
Observation type: **Particles** Particle diameter--lower bound (UM): **0** Particle diameter--upper bound (UM): **2.5**
Field sampling or measurement principle: **Optical attenuation--aethalometer** Medium: **Quartz** Inlet type: **Impactor--direct**
Volume standardization: **20 deg. C; 1 atmosphere** Sampling Height above ground (m): **5** Wavelength (NM): **880** Wavelength--lower bound (NM): **880**
Wavelength--upper bound (NM): **880** Instrument name and model number: **Magee Scientific Aethalometer AE-21**
Measurement principal investigator: **Koutrakis, Dr. Petros** Detection Limit: **Not available**

Site Name:**13th and Tudor, East St. Louis, Illinois** Latitude:**38.6122 deg.** Longitude:**-90.1603 deg.** Start Date:**2001-04-11**



Statistics
Number of obs: **26,495**
Number of missing: **1,131**
Minimum: **-0.049**
25th Percentile: **0.541**
Median: **0.861**
Mean: **1.136**
75th Percentile: **1.419**
Maximum: **18.976**
Stnd Dev.: **0.948**

NARSTO Flags

Flag Symbol	Count
M1:	**1,114**
M2:	**17**
V0: ●	**25,330**
V4: ◆	**34**

Time Zone: CST

File Name: NARSTO_EPA_SS_ST_LOUIS_AETH_5MIN_2001C20010930.lv1